

Notice of Allowability

Application No.

10/040,530

Examiner

Jennine M. Brown

Applicant(s)

WANG, YI-FENG

Art Unit

1755

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the interview summary of 07/21/2004.
2. ☒ The allowed claim(s) is/are 32-37.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

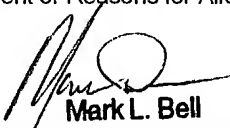
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 5/5/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 7/21/2004.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Mark L. Bell
Supervisory Patent Examiner
Technology Center 1700

EXAMINER'S AMENDMENT

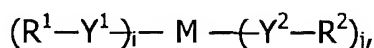
An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bill Haulbrook on 07/21/2004.

The application has been amended as follows:

Delete claims 41-73.

In claim 32, line 7, after "a polymerization catalyst comprising" delete "a polymeric group comprising 25 or more carbon atoms" and insert -- a compound having the molecular formula



wherein:

each of i and j is an integer; $i \geq 0$; $j \geq 1$;

each R^1 independently is, or two or more R^1 groups taken together are, an alkyl group or an alkyl ether group each having between 1 and 20 carbon atoms;

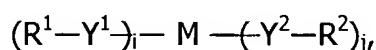
each R^2 independently is a polymeric group comprising 25 or more carbon atoms, wherein at least one R^2 comprises at least one of (i) a polyalkylene group comprising 25 or more carbon atoms and (ii) a polyether group;

each Y^1 and Y^2 independently is a single bond or a heteroatom selected from the group consisting of O, S, and N; and

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M is Ti, Sn, or $-Z^1-(X)_k-Z^2-$, wherein Z^1 independently is Ti or Sn, Z^2 independently is Ti or Sn, each X independently is O or $O-R^3-O$, wherein R^3 is an alkylene group, and k is 1, 2, or 3 --

In claim 35, line 8, after "comprising", delete "a polymeric group comprising 25 or more carbon atoms" and insert -- a compound having the molecular formula



wherein:

each of i and j is an integer; $i \geq 0$; $j \geq 1$;

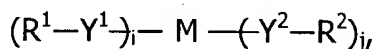
each R^1 independently is, or two or more R^1 groups taken together are, an alkyl group or an alkyl ether group each having between 1 and 20 carbon atoms;

each R^2 independently is a polymeric group comprising 25 or more carbon atoms, wherein at least one R^2 comprises at least one of (i) a polyalkylene group comprising 25 or more carbon atoms and (ii) a polyether group;

each Y^1 and Y^2 independently is a single bond or a heteroatom selected from the group consisting of O, S, and N; and

M is Ti, Sn, or $-Z^1-(X)_k-Z^2-$, wherein Z^1 independently is Ti or Sn, Z^2 independently is Ti or Sn, each X independently is O or $O-R^3-O$, wherein R^3 is an alkylene group, and k is 1, 2, or 3 --

In claim 37, lines 9-10, after "the polymerization catalyst comprising", delete "a polymeric group comprising 25 or more carbon atoms" and insert -- a compound having the molecular formula



wherein:

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each of i and j is an integer; $i \geq 0$; $j \geq 1$;

each R^1 independently is, or two or more R^1 groups taken together are, an alkyl group or an alkyl ether group each having between 1 and 20 carbon atoms;

each R^2 independently is a polymeric group comprising 25 or more carbon atoms, wherein at least one R^2 comprises at least one of (i) a polyalkylene group comprising 25 or more carbon atoms and (ii) a polyether group;

each Y^1 and Y^2 independently is a single bond or a heteroatom selected from the group consisting of O, S, and N; and

M is Ti, Sn, or $-Z^1-(X)_k-Z^2-$, wherein Z^1 independently is Ti or Sn, Z^2

independently is Ti or Sn, each X independently is O or $O-R^3-O$, wherein R^3 is an alkylene group, and k is 1, 2, or 3 --

Allowable Subject Matter

Claims 32-37 are allowed.

The following is an examiner's statement of reasons for allowance:

The Examiner is relying upon Applicant's arguments for the patentability of the instant claims, specifically Applicant's argument that Winckler, et al. do not provide the polymerization catalyst having a polymeric group with at least 25 carbon atoms and therefore does not anticipate or render obvious Applicant's composition of same. Closest prior art of record discloses catalyst compositions with 20 or fewer carbon atoms.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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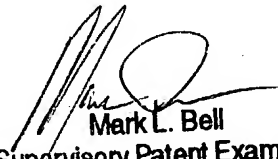
accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennine M. Brown whose telephone number is (571) 272-1364. The examiner can normally be reached on M-F 8:00 AM - 6:00 PM; first Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jmb


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